



# Training and Education Technology Division



Dr. Mike Bailey

Director

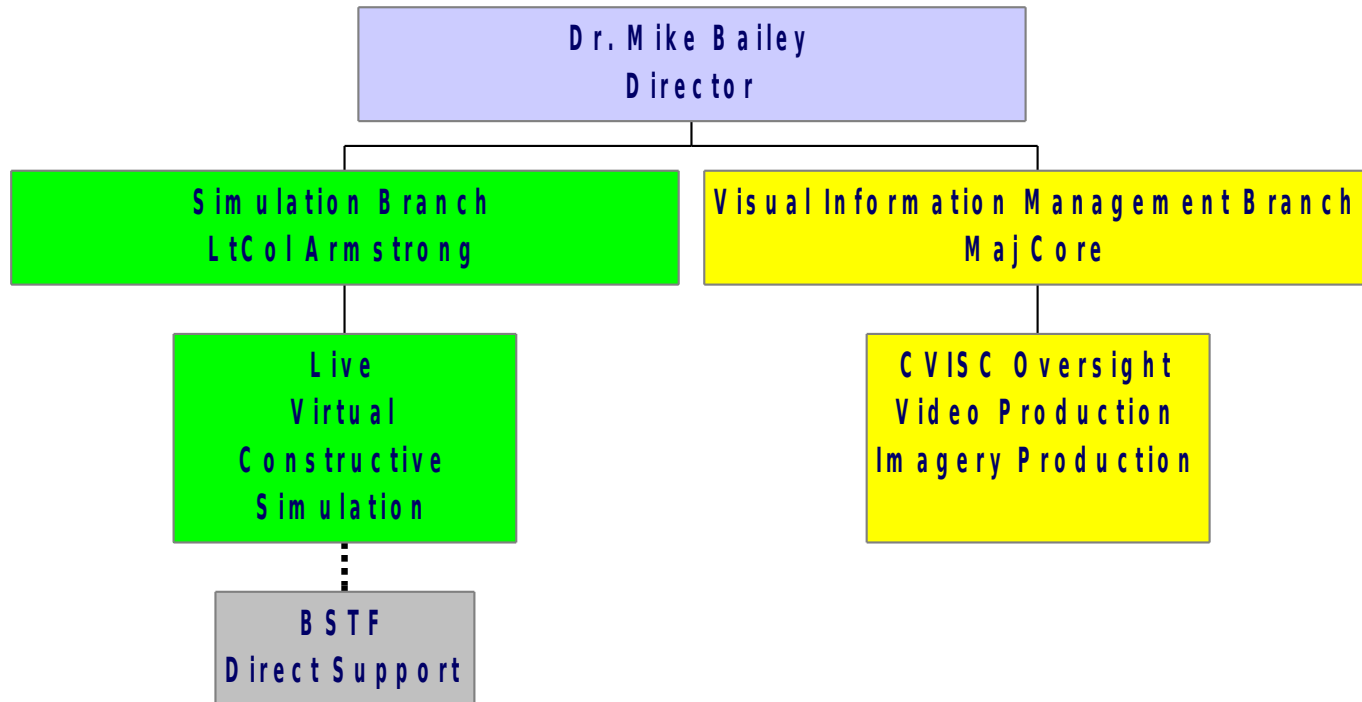
Technology Division

Training and Education Command





# Organization





# Resource Sponsorship

- Visioneering
- Fleet Interface to Uncover Deficiencies/Opportunities
  - CG TECOM Guidance, TSA's, MCCDC UNS's, Participant in TDS (SAT), S&T Requirements Officers, Executive Representation, Being the POC
- Developer of First Draft Functional Design and CONOPS
- Initiation of Programs via MCCDC Role
  - Authors of UNSs (via CG TECOM) and ORDs (via IPT)
- POM Sponsorship
- Supportive Participation in Development Process
- Oversight and Sponsorship of Fleet Support





# Director's Strategic Agenda

- Top-Quality Individual/Crew/Unit Training and Education Resources
- Integrated Targeting for IMI, Instructional Video, Classroom Technology, Audio-Visual Equipment, Simulation and Simulators
  - Fleet, MCU, Formal Schools
- Total Coverage for LVC Training
- On-Demand, Web-Based PME, Skill-Progression, and Refresher Training



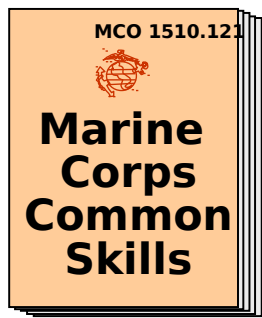


# Resources

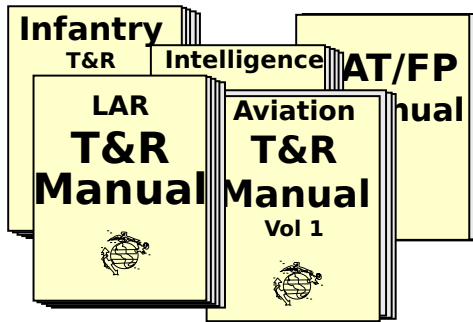


- Devices
- Interactive Multimedia Content
- Videos
- "Games"
- Constructive Simulation
- Textbooks
- Seminars
- Facilities
- Technology-enhanced Classrooms
- Ammunition Substitutes
- Video Tele-training

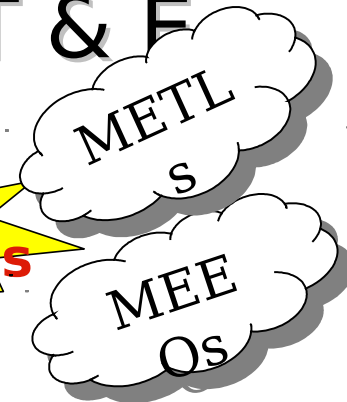
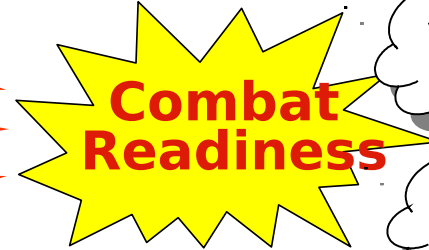




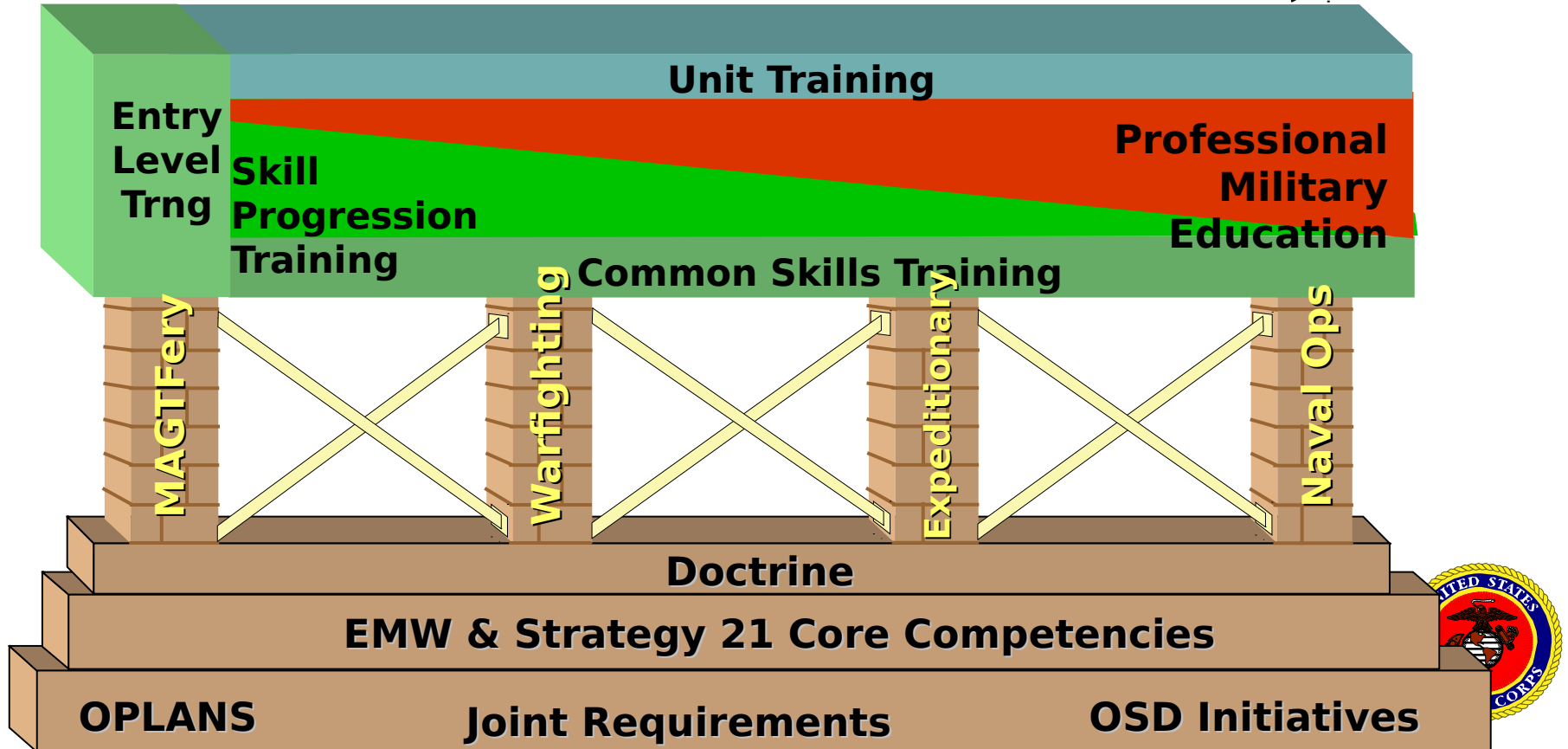
# Framework for All Things T & E



**E  
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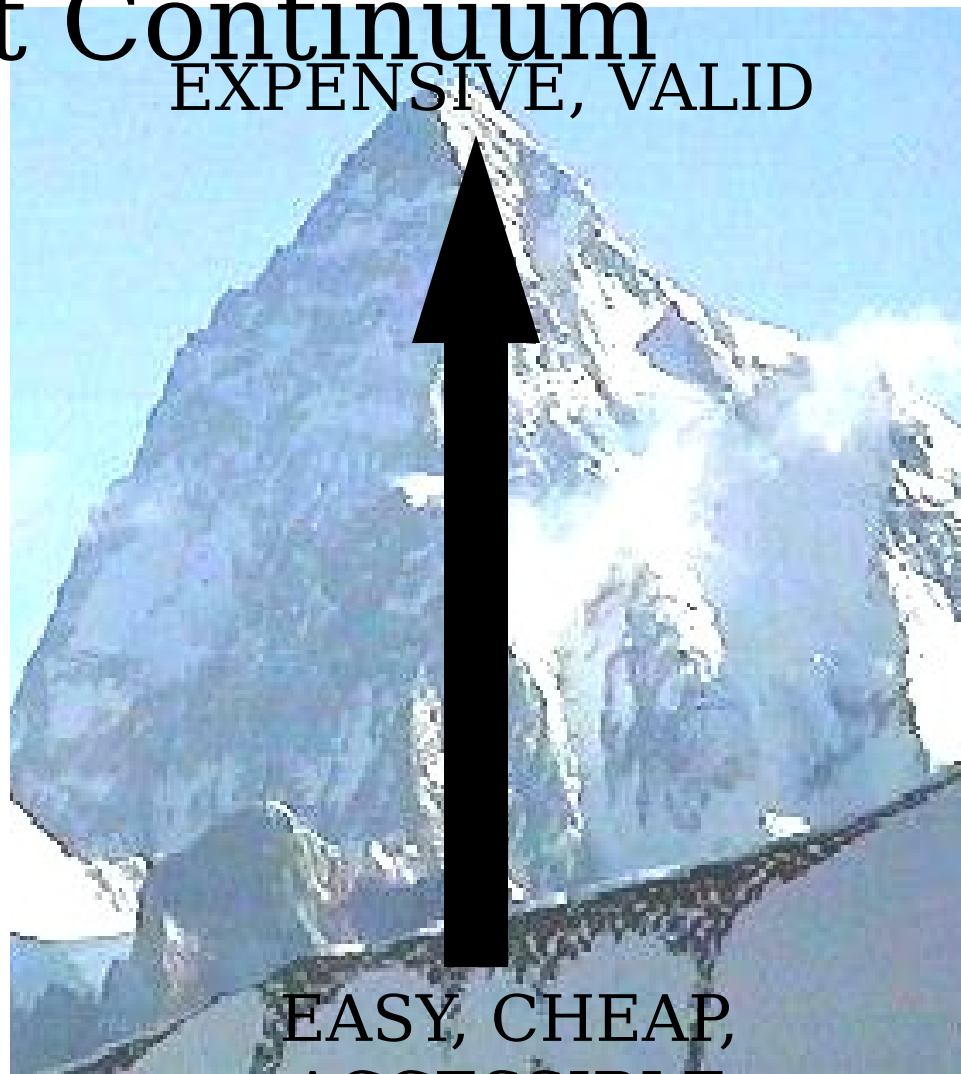
Pvt / 2ndLt ——— **Training and Education Continuum** ———▶ SgtMaj / Gen





# Training Methods Support Continuum

11. Combat
10. Instrumented  
LiveEX
9. LiveEX
8. TEWT (FSCEX)
7. Virtual Exercise  
(Joystick, C2 System,  
Immersive)
6. Instructor/Operator-  
Supported SimEX  
(Phase III)
5. Tactical Decision  
Simulation
4. Pract. App./Sand  
Table/CAST
3. Classroom
2. Instruction (Phase II)





# Targeting

- A TECOM-Sponsored Training Event
  - Intrinsic Value to the Participants, more Combat Capable
  - Standards Connection
  - Observed, Ideally Measured
  - Economical







# Target Nomination

- Increasing Scale
  - expanding force structure, more interactive OPFOR, expanding geography, expanding variety of weapons, adding MAGTF, Naval, or Joint Players
- Increasing Training Value
  - compressing timeline, adding AAR, enhancing observability, enabling performance analysis
- Making an Event Possible by Making it Economical
- Making an Event Possible in More Locations





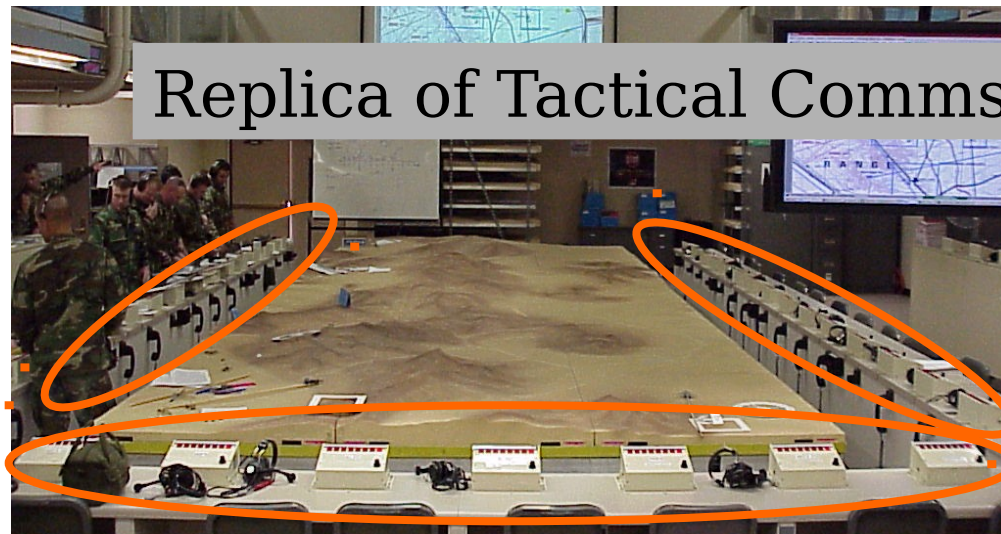
# Sponsored Systems

- Minor Training Devices
- Combat Vehicle Training System
- Closed Loop Artillery Simulation System
- Recognition of Combat Vehicles
- Deployable Virtual Training Environment
- Tactical Decision-Making Simulation
- Infantry Tool Kit
- Position Location Information
- Range Instrumentation
- MILES 2000
- Combined Arms C2 Training Upgrade System
- CAST Upgrade
- Special Effects Small Arms Munitions System
- NITE Facility
- MTWS
- JSIMS
- MTVR Simulator
- Indoor Simulated Marksmanship Trainer - Enhanced
- Simulation Centers
- MISTCs

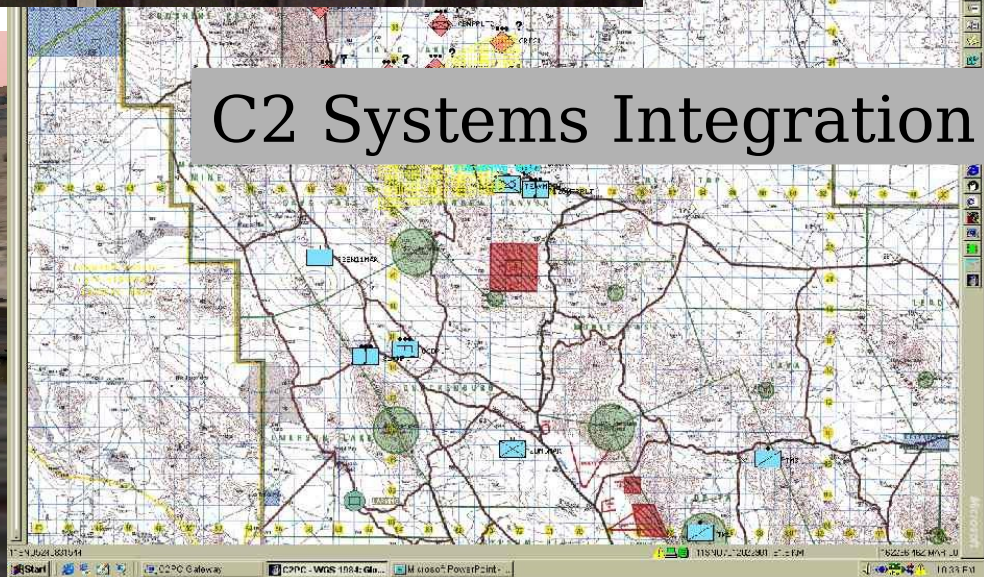




## Replica of Tactical Comms



## C2 Systems Integration

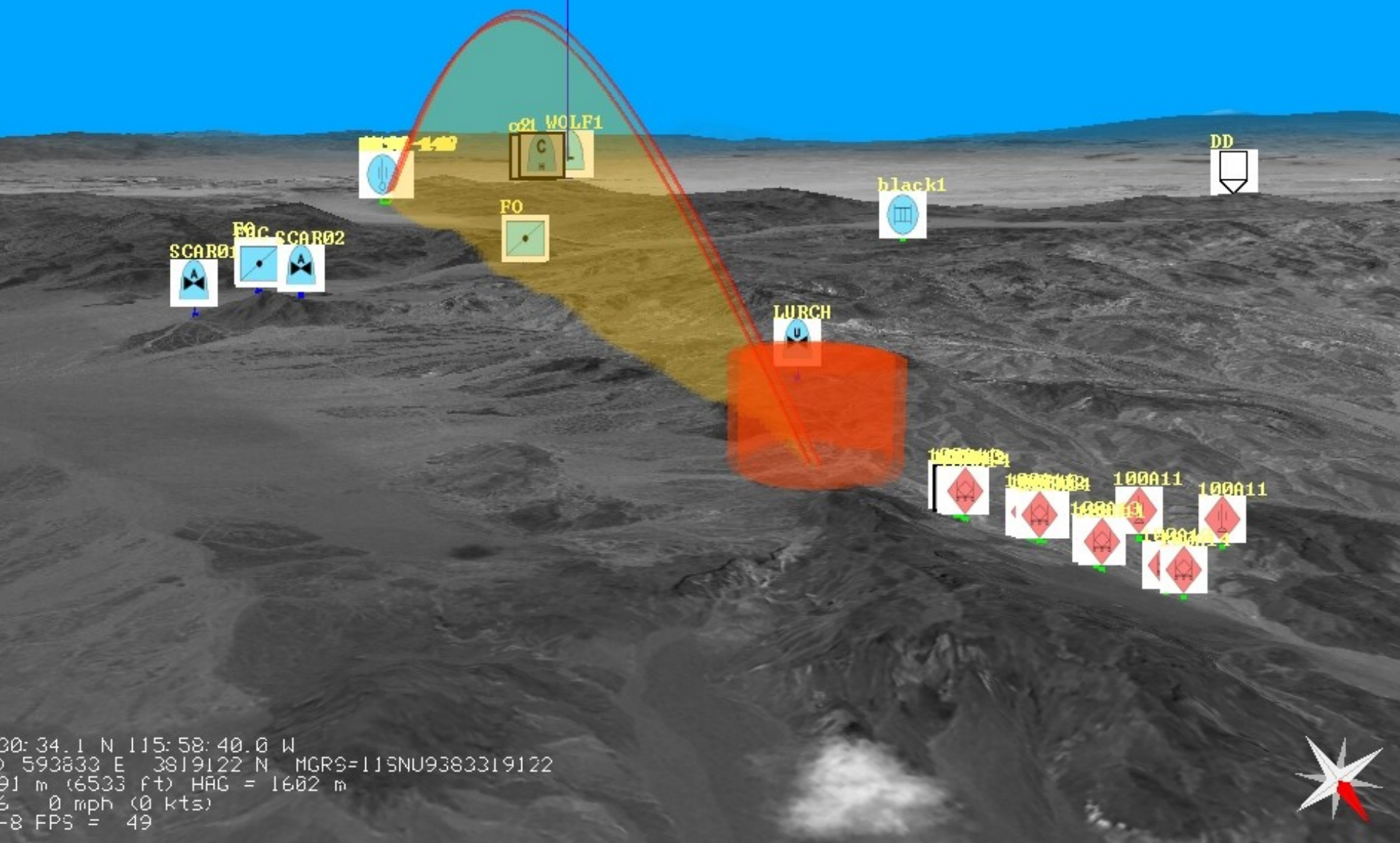


## High-Res Combat Simulation





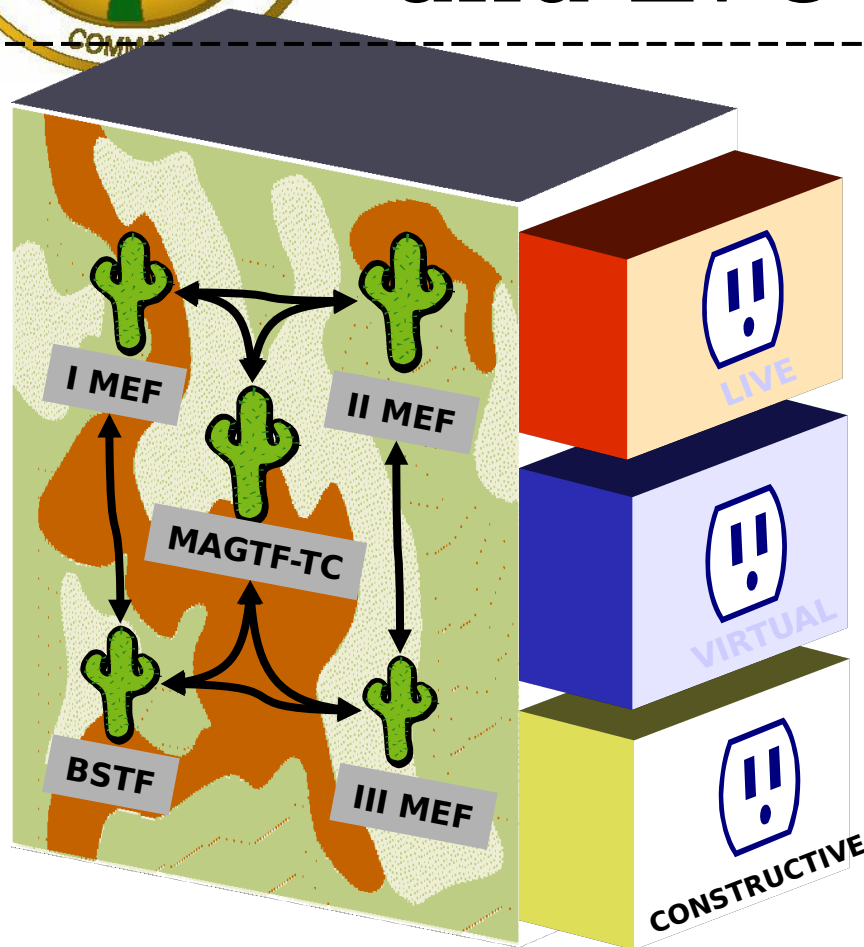
# After Action Review



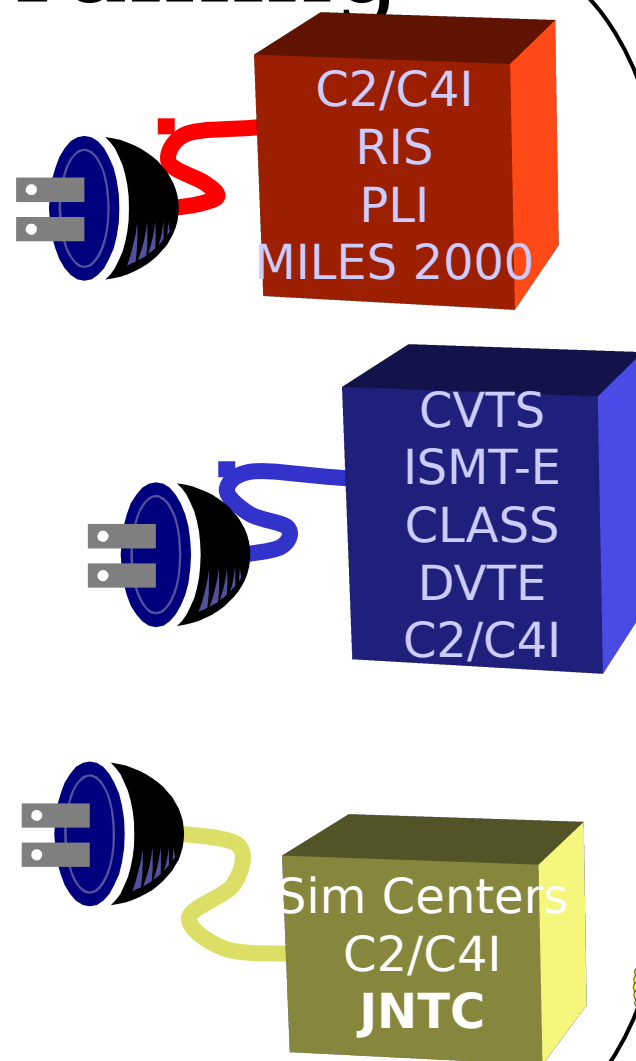
00:34.1 N 115:58:40.0 W  
0 593833 E 3819122 N MGRS=11SNU9383319122  
91 m (6533 ft) HAG = 1602 m  
0 mph (0 kts)  
-8 FPS = 49



# Project CACCTUS and LVC Training



CACCTUS Framework





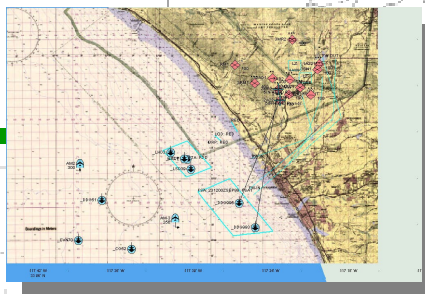


# Combined Arms Staff Training

## Composite Exercise: Force-on-Force



Combined Arms Staff Trainer, Camp Pendleton, CA



Battle Staff Training Facility (BSTF)  
Quantico

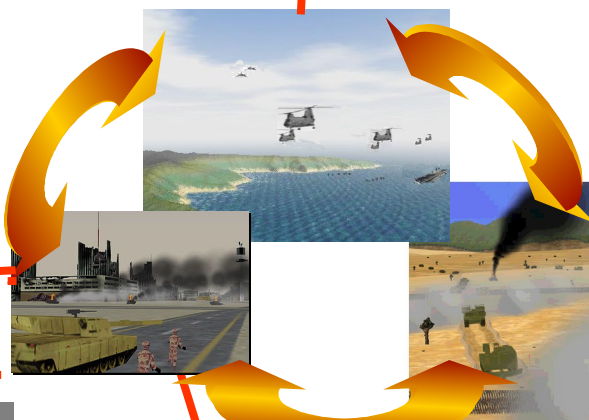
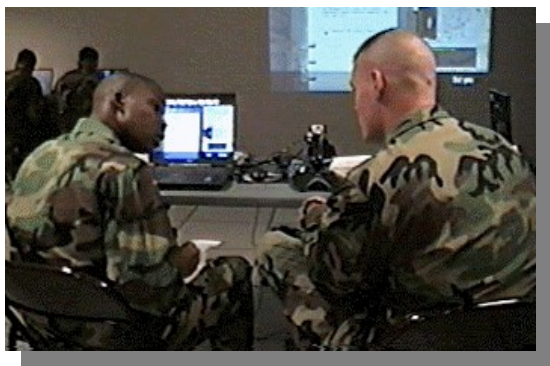


Combined Arms Staff Trainer, Camp Lejeune





# DVTE: Deployable Virtual Training Environment



CACCTUS CORE



**DEPLOYABLE TRAINING NETWORK**



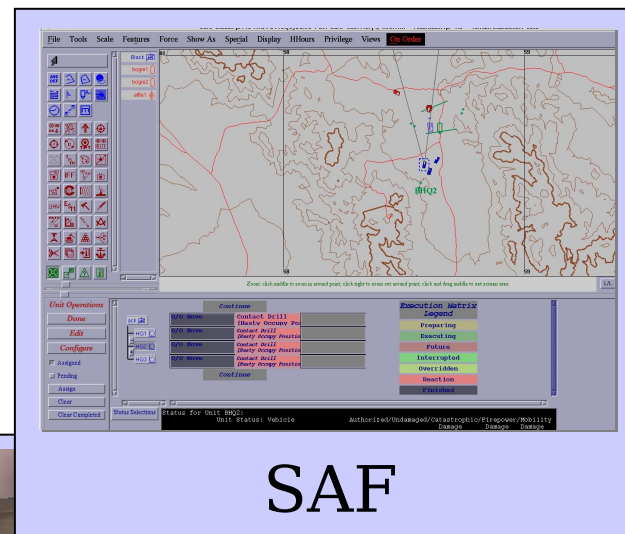




# DVTE: Deployable Virtual Training Environment



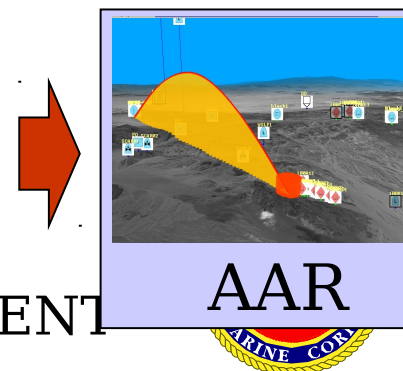
Platform Specific Simulators



(Simulation)



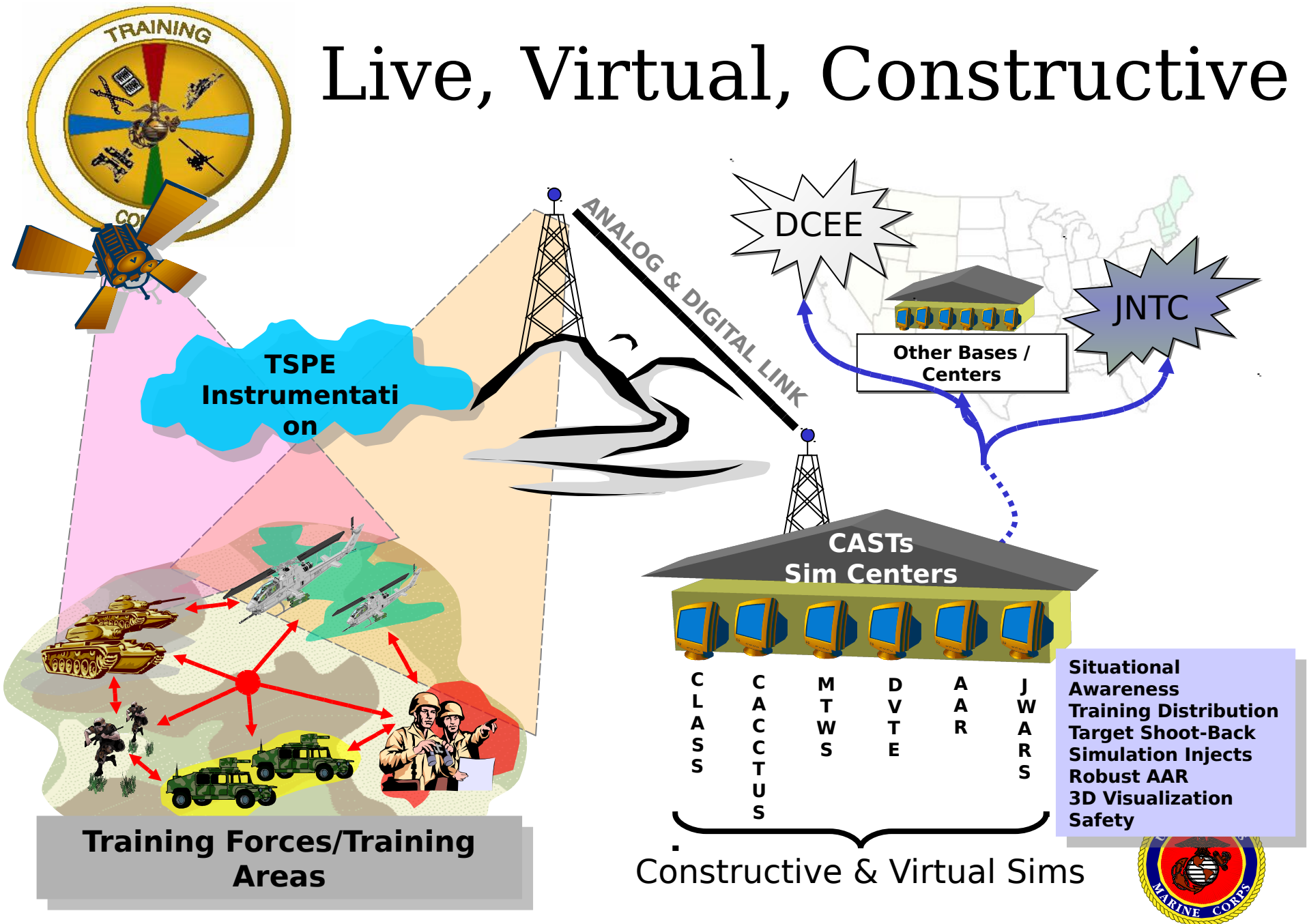
COMMON SYNTHETIC NATURAL ENVIRONMENT





AAR



# Live, Virtual, Constructive







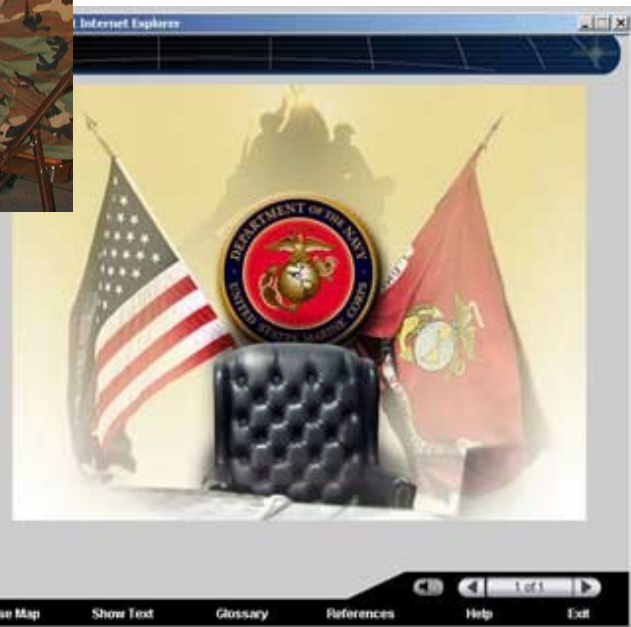
# General Colin Powell

Chairman (Ret), Joint Chiefs of Staff

## A Leadership Primer



Self-authored IMI



MCRC RS Commander's Course





# Exploiting Learning Resources

- Tactical Decision Simulation
- On-line Video ALMAR (*Your Corps*)
- Instructor-Generated IMI
  - meeting the Style Guide and System Spec.
- Joint PME
- Scenario Generation, Performance Analysis, and AAR Tools for Virtual Simulators
- Other Services' Stuff
- Community Integration
- Civilian Leadership Development







# Technology Division Contacts

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<http://www.tecom.usmc.mil/techdiv>





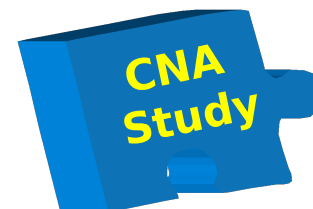
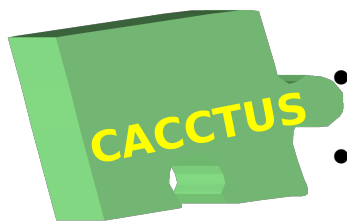
## Ancillary Slides





# Ongoing DoD, Joint, DON Initiatives

- DPG Training Transformation
- Defense Test/Training Steering Group (DTTSG)
- Training Instrumentation Range Investment Committee (TIRIC) - MOUT
- Joint Urban Operations Special Study Group (JUOSSG)
- Defense Science Board (DSB)
- Improved Readiness Assessment System
- Congressional initiatives
- Alternatives to Vieques
- JCAS JT&E
- Training Readiness Survey

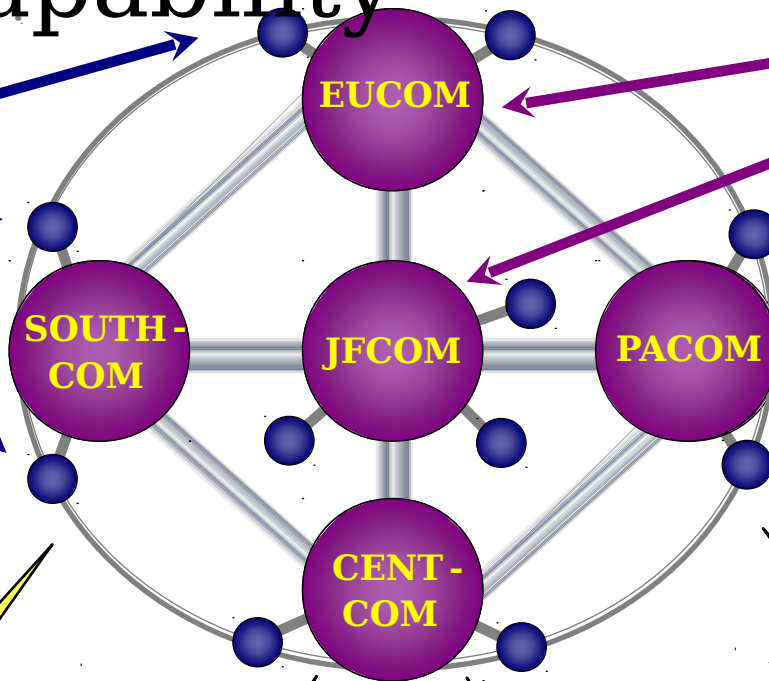
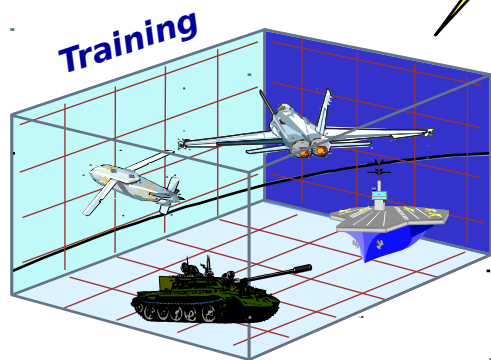




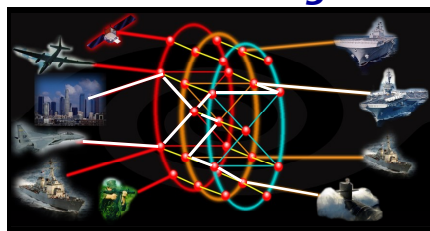
# Joint National Training Capability

**Component & CINC Training Centers**

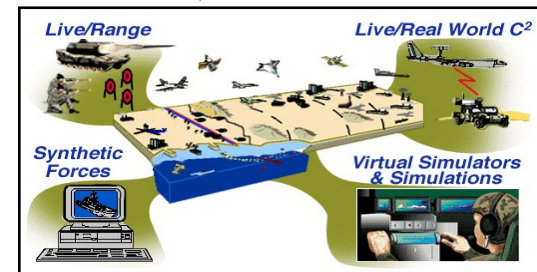
**Global Simulation Centers**



**Experimentation and Testing**



**Live/Virtual/Constructive**

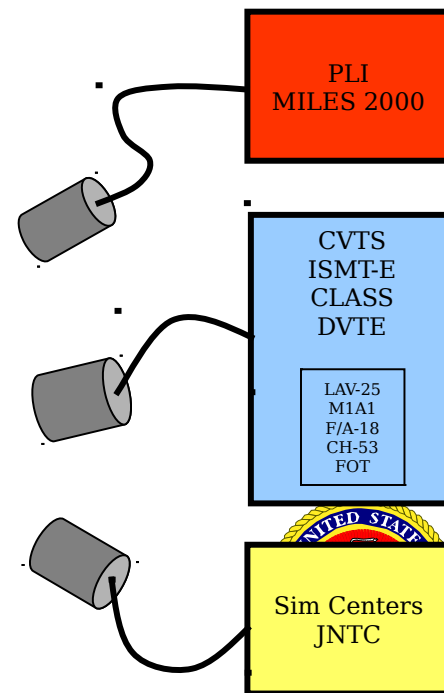
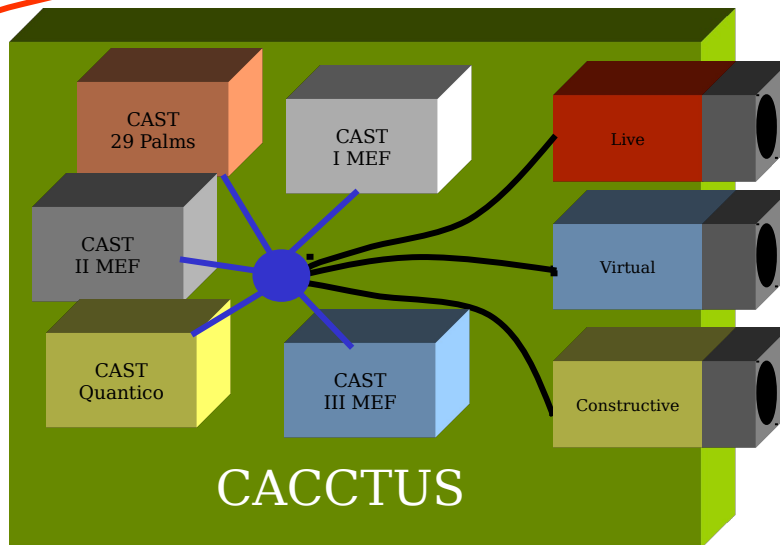


**Ranges**





# Joint National Training Capability

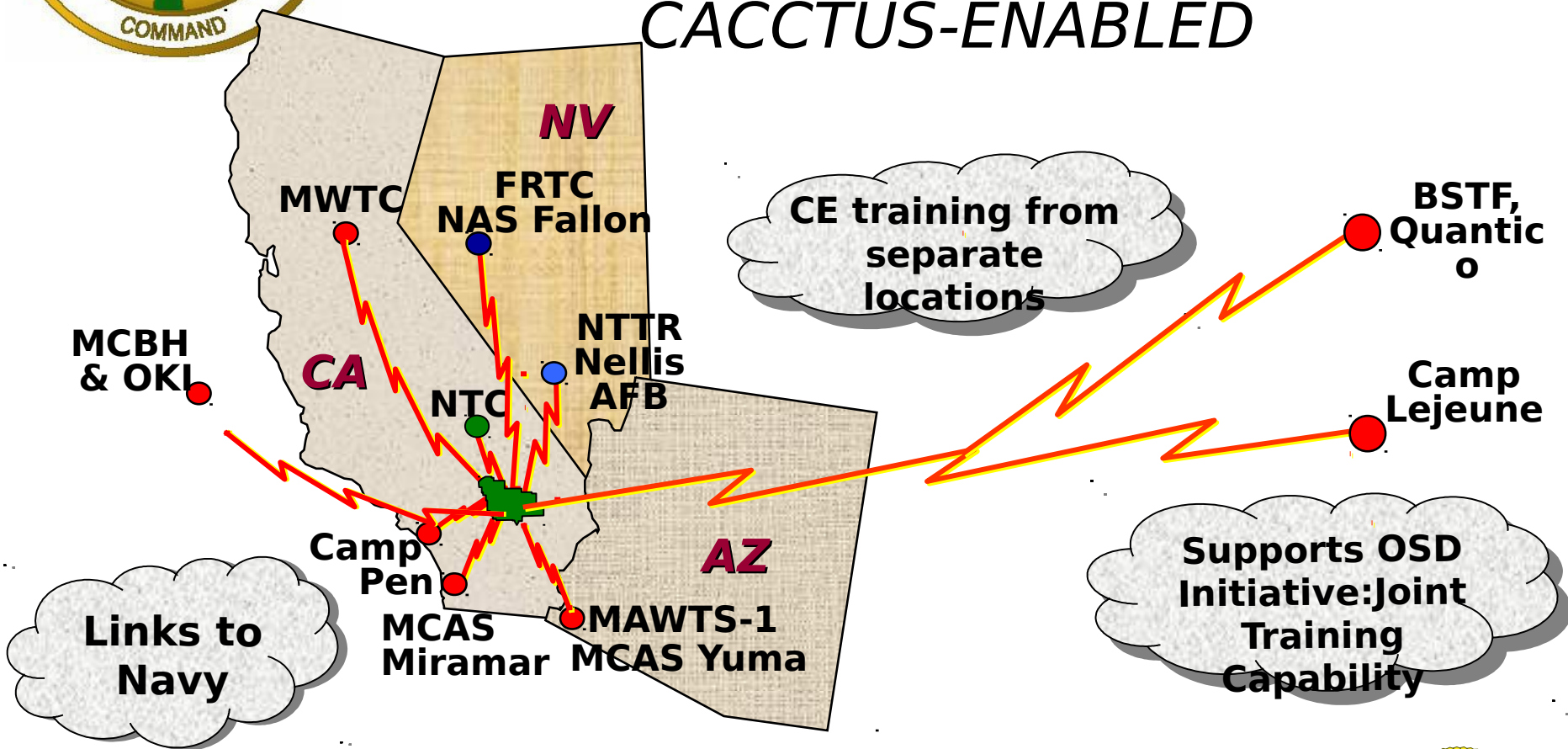






# Distributed Training Events

*CACCTUS-ENABLED*



USING CASTs, BSTFs, NAVY and JOINT SIM CENTERS

